



Name _____

Date _____

Date due _____

Science 10 – Assignment on the Early Search for Elements

Note: Use the information from pages 163 – 168 in Science Probe Text and the Power Point Presentation “History of Investigating Matter” at \\sd67\district\SSS\Student-Data\Course Resources\Science\SCIENCE10 COLGUR\SC 10 PPT PROJECTS to answer the following questions:

1. Outline the contributions of each of the following people to our knowledge of elements and the structure of atoms:
 - a) Empedocles -

 - b) Democritus -

 - c) Aristotle -

 - d) Hennig Brandt -

 - e) Robert Boyle -

 - f) Henry Cavendish -

g) Joseph Priestley -

h) Antoine Lavoisier -

i) John Dalton -

2. The original “four elements” proposed for all matter were _____,
_____, _____ and _____.
3. What was the belief about the “Philosopher’s Stone”? _____

4. _____ performed experiments to disprove the four element hypothesis.
5. Should scientific beliefs ever be challenged? _____ Explain your answer. ____

6. What gas did Henry Cavendish produce in 1766? _____
How did he produce it? _____
7. What two elements did Joseph Priestley isolate in 1774? _____
and _____. He did this by decomposing the compound

8. What did Cavendish do with hydrogen and oxygen? _____

9. What is meant by a property? _____

10. In 1808, John Dalton proposed the _____ theory.

11. List the four main points of Dalton's theory:

1.

2.

3.

4.

12. Explain why we no longer believe two of the points is Dalton's Atomic Theory.
